Davis Law Group

A Professional Corporation

March 21, 2006

Via facsimile to 571.273.6500

Refund Branch U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Re:

Deposit Account No. 50-3524 (Refund Request)

Customer No. 53953

Dear Sir or Madam:

For U.S. Patent Application Serial No. 10/675,432, I faxed the attached Response to Office Action and Petition for Extension of Time (requesting a one-month extension of time) to the U.S. Patent and Trademark Office ("USPTO") on Tuesday, February 21, 2006. The Response to Office Action was originally due on Thursday, January 19, 2006, so that a one-month extension of time would expire at the end of Tuesday, February 21, 2006, because: (a) February 19, 2006, was a Sunday; and (b) February 20, 2006, was a Federal holiday within the District of Columbia.

On February 23, 2006, my firm's Deposit Account No. 50-3524 was charged \$120 for a one-month extension of time. However, on February 28, 2006, my firm's Deposit Account No. 50-3524 was charged an additional \$330 for a two-month extension of time (i.e., \$120+\$330=\$450).

By this letter, I respectfully ask that you please refund the additional \$330 to my firm's Deposit Account No. 50-3524.

As shown in the attached document: (a) I sent the fax from area code (512), which is located in Austin, Texas, in the Central time zone; (b) the fax was completely received in the USPTO at 12:32 a.m. Eastern time on February 22, 2006, which was 11:32 p.m. Central time on February 21, 2006; and (c) accordingly, in the attached Response to Office Action and Petition for Extension of Time, I signed a Certificate of Transmission, which certified that the document was being facsimile transmitted to the USPTO on February 21, 2006.

According to MPEP 502.01: "For example, a facsimile transmission to the Office from California starting on a Friday at 8:45 p.m. Pacific time and taking 20 minutes, would be completed at 9:05 p.m. Pacific time. The complete transmission would be received in the Office around 12:05 a.m. Eastern time on Saturday. The receipt date accorded to the correspondence is the date of the following business day, which in this case, would be Monday (assuming that Monday was not a Federal holiday within the District of Columbia). Note however, that if the Certificate of Transmission is available (for documents not proscribed by 37 CFR 1.8(a)(2)), then the above facsimile may be considered timely filed on Friday if it contains a

9020 N. Capital of Texas Hwy. Bldg. I, Suite 375 Austin Texas 78759 Phone: 512.306.TECH (8324) Fox: 512.306.8374

michael.davis@Leaal VP.com

PAGE 2/17 * RCVD AT 4/24/2006 12:06:08 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-3/15 * DNIS:2736500 * CSID:512 306 8374 * DURATION (mm-ss):04-50

Certificate of Transmission and is in compliance with 37 CFR 1.8(a)(1)(i)(B) and (ii)" (emphasis added).

Therefore, in this case:

- (a) the Response to Office Action and Petition for Extension of Time was timely filed on February 21, 2006, before expiration of a one-month extension of time, in compliance with 37 CFR 1.8(a)(1)(i)(B) and (ii);
- (b) my firm's Deposit Account No. 50-3524 should not have been charged an additional \$330 for a two-month extension of time; and
- (c) I respectfully ask that you please refund the additional \$330 to my firm's Deposit Account No. 50-3524.

If I need to provide additional information or do anything else concerning this request, please let me know. I would appreciate your return correspondence to confirm receipt of this request. Thanks for your help.

Respectfully submitted,

DAVIS LAW GROUP, P.C.

By:

Michael A. Davis, Jr.

Registration No. 35,488

Attachments

USPTO 2/22/2006 12:37 AM PAGE TO:Auto-reply fax to 512 308 8374 COMPANY:

Fax Server

Auto-Reply Facsimile Transmission

TO:

Fax Sender at 512 305 8374 Davis Law Group, P.C.

Fax Information Date Received: Total Pages:

2/22/2006 12:32:25 AM [Eastern Standard Time]

17 (including cover page)

1/001

ADVISORY: This is an automatically generated return receipt confirmation of the facsimile transmission received by the Office. Please check to make sure that the number of pages listed as received in Total Pages above matches what was intended to be sent. Applicants are advised to retain this receipt in the unlikely event that proof of this facsimile transmission is necessary. Applicants are also advised to use the certificate of facsimile transmission procedures set forth in 37 CFR 1.8(a) and (b), 37 CFR 1.6(f). Trademark Applicants, also see the Trademark Manual of Examining Procedure (TMEP) section 305 et seq.

Received Cover Page =====>

PEB-22-2000(00-0) 60:30 Uavin Law Group, P.C. (FAXOSIZ 940 8314 P. COLINGIA Fox Trensmittel DATE: February 21, 2008 Tatal Pages (including this cover page): _17_ Commissional for Patenta Ryun A. Dare 671-273-8300 10/078,482 Etitolour, Fitz No.: Gerlei No.: Michael A. Covis, Jr. 2 (512) 200-6334 Obvin Law Group, P.C. 9020 N. Capital of Totals Hery. Ukig. 1, Suite 277 Autile, Texas 78759 (512) 304-8374 Inferior Legislation of the problem with the pass No: 10675,432 Tibe: METHOD AND SYSTEM FOR REDUCING POWER CONSUMPTION IN A CACHE Transmittal letter (in duplicate): Publican for Extension of Time (in shplicate); and Response to Office Action. ld paymen in the strong reterenced application is on is maken whould be directed to the productioned

PAGE 4/17 * RCVD AT 4/24/2006 12:06:08 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-3/15 * DNIS:2736500 * CSID:512 306 8374 * DURATION (mm-ss):04-50

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Docket No. 1001.29 Customer No. 53953

In re application of:

Allen Bruce Goodrich

999

Serial No.: 10/675,432

9 CP CP

Group Art Unit: 2186

Filed: September 30, 2003

Examiner: Dare, Ryan A.

For: METHOD A

METHOD AND SYSTEM FOR REDUCING POWER CONSUMPTION

IN A CACHE MEMORY

Confirmation No.: 6197

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Enclosed are the following regarding the above-identified patent application:

- 1. Transmittal letter (in duplicate);
- 2. Petition for Extension of Time (in duplicate);
- 3. Response to Office Action.
- [] Small entity status of this application has previously been established.
- [] No additional fee is required.

The fee has been calculated as shown below:

ú	Col. 11		(Col. 2)	(Col. 3)	SMALL	ENTITY		OTHER SMALL	THAN A ENTITY	
F	CLAIMS REMAIN AFTER AMEND	IING	HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE A FEE	DDIT.	<u>OR</u>	RATE FEE	ADDIT.
TOTAL	20	minus	20	= O	x 25	S	OR	x 50	\$	•
INDEP	2	minus	3	= C	x 100	S	OR	x 200	\$	•
FIRST PR	ESENTA	IO NOTTA	F MULTIPLE DEP.	CLAIM	+ 180	<u> </u>	OR	+ 360	\$	
					TOTAL	s	OR	TOTAL	S	•

Docket No. 1001.29 Customer No. 53953

	o.: 10/675,432 e to Office Action		
,	51 1 45	 ••	

Please charge Deposit Account No. 50-3524 in the amount of \$_

A check in the amount of \$_ _ is attached. The Commissioner is hereby authorized to charge payment of the following fees associated with this

communication or credit any overpayment to Deposit Account No. 50-3524. [X] [X] Any additional filing fees under 37 C.F.R. § 1.16 for the presentation of extra claims.

Any patent application processing fees under 37 C.F.R. § 1.17.

[X] A copy of this sheet is enclosed.

Respectfully submitted,

Michael A. Davis, Jr. Registration No. 35,488

Date: February 21, 2006 Davis Law Group, P.C. 9020 N. Capital of Texas Hwy. Bldg. 1, Suite 375 Austin, Texas 78759 Telephone 512-306-8324 Facsimile 512-306-8374 Docket Number; 1001.29

horeby certify that this paper is being face and Trademark Office on the date shown b	imile transmitted to the Patent slow;
Fax Numbor: <u>671-273-8300</u>	
Michael A. Dovis. Jr. TYPE OR PRINT NAME	
SIGNATURE FEBRURIY 21, 2008 DATE OF TRANSMISSION	

PTO/SB/22 (08-03)

Approved for use through 7/31/2006, OMB 0851-0031
U.S. Patent and Tradomark Office; U.S. DEPARMENT OF COMMERCE
Under the paperwork Reduction Act of 1985, no persons are required to respond to a collection of information unless if displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME	Docket Number (Optional) 1001.29					
	In re Application of Allen	Bruce Goodrich				
		Application Number 10/675,432 Filed September 30, 2003 METHOD AND SYSTEM FOR REDUCING POWER CONSUMPTION For INA CACHE MEMORY				
	Art Unit 2188	Examiner Dare, Ryan A.				
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.						
The requested extension and appropriate non-small-entity fee are as follows (check time period desired):						
✓ One month (37 CFR 1.17(a)(1)) \$_120.00						
Two months (37 CFR 1.17(a)	(2))	\$				
Three months (37 CFR 1.17(a)(3))	\$				
Four months (37 CFR 1.17(a))(4))	s				
Five months (37 CFR 1.17(a)	(5))	\$				
Applicant claims small entity status. See 37 CFR 1.27. Therefore, the fee amount shown above is reduced by one-half, and the resulting fee is: \$						
A check in the amount of the fee	A check in the amount of the fee is enclosed.					
Payment by credit card. Form PTO-2038 is attached.						
The Director has already been authorized to charge fees in this application to a Deposit Account.						
The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 50-3524						
I have enclosed a duplicate copy	I have enclosed a duplicate copy of this sheet.					
i am the applicant/invento	or.					
assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed (Form PTO/SB/96).						
attorney or agen						
attorney or agent under 37 CFR 1.34(a). Registration number if acting under 37 CFR 1.34(a)						
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
Fobruary 21, 2008 Date Signature						
512-308-8324 Michael A. Davis, Jr.: Telephone Number Typed or printed name						
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.						
✓ Total of one forms are submitted.						

This collection of information is required by 37 CFR 1,136(s). The information is required to obtain or retain a banetit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1,14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chlof Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need exsistence in completing the form, call 1-800-PTO-9199 and select option 2.

Docket No. 1001.29 Customer No. 53953

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Allen Bruce Goodrich

Serial No.: 10/675,432

Filed: September 30, 2003

For: METHOD AND SYSTEM FOR

REDUCING POWER CONSUMPTION

IN A CACHE MEMORY

Group Art Unit: 2186

Examiner: Dare, Ryan A.

Confirmation No.: 6197

Mail Stop Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

RESPONSE TO OFFICE ACTION

Please reconsider this application in view of the following remarks.

Amendments to the Specification begin on page 2 of this Response to Office Action.

Amcudments to the Claims are reflected in the listing of claims, which begins on page 3 of this Response to Office Action.

Remarks begin on page 8 of this Response to Office Action.

Docket No. 1001.29 Customer No. 53953

Amendments to the Specification

Please replace the paragraph beginning at page 16, line 3, with the following rewritten paragraph.

-In response to the start of a next clock cycle k+2 k+1, the latch 148 receives and stores such information from the words Wxyz. Accordingly, via the control logic 100 and bus 116, the multiplexer 112 outputs (to the latch 148) either: (a) the words W_{z00} through W_{z07} if the match is with Address Tag_{x0}, (b) the words W_{x10} through W_{x17} if the match is with Address Tag_{xl} , (c) the words W_{x20} through W_{x27} if the match is with Address Tag_{x2} , or (d) the words Wz30 through Wz37 if the match is with Address Tagz3.-

APR-24-2006(MON) 11:05

Serial No.: 10/675,432 Response to Office Action

Docket No. 1001.29 Customer No. 53953

Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application.

(Currently amended) A method of reducing power consumption in an N-way-a 1. multi-way set-associative cache memory having Y sets, wherein N is a first integer, and wherein Y is a second integer, the method comprising:

during a first clock cycle & in response to an address, identifying an associated set in the cache memory, comparing the address to respective tag portions of N blocks in the associated set, and outputting a signal in response thereto, wherein k is an integer; and

during a second clock cycle k+1, in response to the signal indicating that a match between one of the N blocks in the associated set is a match with and the address, reading a non-tag portion of the matching block in the associated set, while non-tag portions of N-1 non-matching blocks a non-matching block in the associated set are is disabled, and while non-tag portions of Y-1 non-associated sets are disabled.

2. (Previously presented) The method of Claim 1, wherein the reading comprises:

enabling the non-tag portion of the matching block in the associated set.

(Previously presented) The method of Claim 2, wherein the enabling comprises:

applying power to the non-tag portion of the matching block in the associated set.

4. (Currently amended) The method of Claim 1, and comprising: removing power from at least one of the non-tag portions of: the N-1 non-matching blocks-block in the associated set; and the Y-1 non-associated sets.

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 (Currently amended) The method of Claim 4, wherein the removing power comprises:

removing power from the at least one of the non-tag portions the non-matching block in the associated set, so that it the non-matching block in the associated set is disabled from outputting information, and so that it the non-matching block in the associated set continues to store the information.

- 6. (Previously presented) The method of Claim 1, wherein the cache memory is a program cache.
- 7. (Previously presented) The method of Claim 1, wherein the cache memory is a data cache.
- 8. (Currently amended) The method of Claim 1, wherein the comparing the address-comprises:

comparing a portion of the address to respective tag portions of $\underline{\text{the }N}$ blocks in the associated set.

9. (Currently amended) The method of Claim 1, wherein the reading the non-tag portion-comprises:

reading the non-tag portion of the matching block in the associated set, while the <u>non-tag portions of the N-1</u> non-matching blocks block in the associated set <u>are is</u> at least partly disabled, and while the non-tag portions of the Y-1 non-associated sets are at least partly disabled.

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10. (Currently amended) The method of Claim 1, and comprising wherein reading the non-tag portion comprises:

during the second clock cycle k+1, in response to a second address, identifying a second associated set in the cache memory, comparing the second address to respective tag portions of N blocks in the second associated set, and outputting a second signal in response thereto; and

during a third clock cycle k+2, in response to the second signal indicating that one of the N blocks in the second associated set is a match with the second address, reading a non-tag portion of the matching block in the second associated set, while non-tag portions of N-1 non-matching blocks in the second associated set are disabled, and while non-tag portions of Y-1 non-associated sets are disabled reading the non-tag portion of the matching block in the associated set, while at least first and second non-matching blocks in the associated set are disabled.

11. (Currently amended) A system for reducing power consumption in an N-way a multi-way set-associative cache memory having Y sets, wherein N is a first integer, and wherein Y is a second integer, the system comprising:

first circuitry for: during a first clock cycle \underline{k} , in response to an address, identifying an associated set in the cache memory, comparing the address to respective tag portions of \underline{N} blocks in the associated set, and outputting a signal in response thereto, wherein k is an integer; and

second circuitry for: during a second clock cycle <u>k+1</u>, in response to the signal indicating <u>that a match between</u> one of the <u>N</u> blocks in the associated set is a <u>match with and</u> the address, reading a non-tag portion of the matching block in the associated set, while <u>non-tag portions of N-1 non-matching blocks a non-matching blocks</u> in the associated set <u>are is</u> disabled, and while non-tag portions of Y-1 non-associated sets are disabled.

12. (Previously presented) The system of Claim 11, wherein the second circuitry is for enabling the non-tag portion of the matching block in the associated set.

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- 13. (Previously presented) The system of Claim 12, wherein the second circuitry is for applying power to the non-tag portion of the matching block in the associated set.
- 14. (Currently amended) The system of Claim 11, wherein the second circuitry is for removing power from at least one of the non-tag portions of: the N-1 non-matching blocks-block in the associated set; and the Y-1 non-associated sets.
- 15. (Currently amended) The system of Claim 14, wherein the second circuitry is for removing power from the at least one of the non-tag portions the non-matching block in the associated set, so that it the non-matching block in the associated set is disabled from outputting information, and so that it the non-matching block in the associated set continues to store the information.
- 16. (Previously presented) The system of Claim 11, wherein the cache memory is a program cache.
- 17. (Previously presented) The system of Claim 11, wherein the cache memory is a data cache.
- 18. (Currently amended) The system of Claim 11, wherein the first circuitry is for comparing a portion of the address to respective tag portions of the N blocks in the associated set.
- 19. (Currently amended) The system of Claim 11, wherein the second circuitry is for reading the non-tag portion of the matching block in the associated set, while the non-tag portions of the N-1 non-matching blocks block in the associated set are is at least partly disabled, and while the non-tag portions of the Y-1 non-associated sets are at least partly disabled.

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20. (Currently amended) The system of Claim 11, wherein;

the first circuitry is for: during the second clock cycle k+1, in response to a second address, identifying a second associated set in the cache memory, comparing the second address to respective tag portions of N blocks in the second associated set, and outputting a second signal in response thereto; and

the second circuitry is for, during a third clock cycle k+2, in response to the second signal indicating that one of the N blocks in the second associated set is a match with the second address, reading a non-tag portion of the matching block in the second associated set, while non-tag portions of N-1 non-matching blocks in the second associated set are disabled, and while non-tag portions of Y-1 non-associated sets are disabled reading the non-tag portion of the matching block in the associated set, while at least first and second non-matching blocks in the associated set are disabled.

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REMARKS

Applicant respectfully requests reconsideration of this application in view of the following remarks. Claims 1, 4, 5, 8, 9, 10, 11, 14, 15, 18, 19 and 20 have been amended. Claims 1-20 are pending. Antecedent basis for the amendments is located throughout Applicant's specification and the original claims, as for example in connection with the discussion of Figs. 3 and 4 at page 11, line 22 through page 16, line 22. Accordingly, no new matter has been entered.

Also, the specification has been amended to correct a typographical error. At page 15, line 23 through page 16, line 2, the specification states, "During the clock cycle k+1...the multiplexer 112 outputs information from such words W_{xyz} of the address's associated Set x to the latch 148 via the control logic 100 and bus 116." In the immediately following sentence, at page 16, lines 3-4, the specification states, "In response to the start of a next clock cycle k+1, the latch 148 receives and stores such information from the words W_{xyz} ." Clearly, therefore, at page 16, line 3, "clock cycle k+1" is a typographical error. Accordingly, no new matter has been entered.

Rejection of the claims

The Office Action rejected claims 1 and 11 under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent Application Publication No. 2004/0210728 ("Flautner").

As amended, claim 1 recites:

1. A method of reducing power consumption in an N-way set-associative cache memory having Y sets, wherein N is a first integer, and wherein Y is a second integer, the method comprising:

during a first clock cycle k, in response to an address, identifying an associated set in the cache memory, comparing the address to respective tag portions of N blocks in the associated set, and outputting a signal in response thereto, wherein k is an integer; and

during a second clock cycle k+1, in response to the signal indicating that one of the N blocks in the associated set is a match with the address, reading a non-tag portion of the matching block in the associated set, while non-tag portions of N-1 non-matching blocks in the associated set are disabled, and while non-tag portions of Y-1 non-associated sets are disabled,

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As amended, claim 11 recites:

11. A system for reducing power consumption in an N-way sct-associative cache memory having Y sets, wherein N is a first integer, and wherein Y is a second integer, the system comprising:

first circuitry for: during a first clock cycle k, in response to an address, identifying an associated set in the cache memory, comparing the address to respective tag portions of N blocks in the associated set, and outputting a signal in response thereto, wherein k is an integer; and

second circuitry for: during a second clock cycle k+1, in response to the signal indicating that one of the N blocks in the associated set is a match with the address, reading a non-tag portion of the matching block in the associated set, while non-tag portions of N-1 non-matching blocks in the associated set are disabled, and while non-tag portions of Y-1 non-associated sets are disabled.

In MPEP § 2131, the PTO provides that:

"[t]o anticipate a claim, the reference must teach every clement of the claim...."

Therefore, to sustain a rejection of amended claim 1, Flautner must contain all of the above-recited elements in amended claim 1. However, Flautner fails to teach the combination of elements in amended claim 1. In fact, the Office Action's cited portion of Flautner actually teaches away from such a combination.

Accordingly, Flautner fails to support a rejection of amended claim 1 under 35 U.S.C. § 102(e). In relation to amended claim 11, Flautner is likewise defective in supporting a rejection under 35 U.S.C. § 102(e).

Likewise, in relation to amended claim 1, Flautner is defective in supporting a prima facie case of obviousness. As between Flautner and Applicant's specification, only Applicant's specification teaches the combination of elements in amended claim 1. In fact, the Office Action's cited portion of Flautner actually teaches away from such a combination.

Accordingly, in relation to amended claim 1, the PTO's burden of factually supporting a prima facic case of obviousness has not been met. In relation to amended claim 11, Flautner is likewise defective in supporting a prima facic case of obviousness.

Thus, a rejection of amended claims 1 and 11 is not supported.

Docket No. 1001,29 Customer No. 53953

Conclusion

For these reasons, and for other reasons clearly apparent, Applicant respectfully requests allowance of claims 1 and 11.

Dependent claims 2-10 depend from and further limit claim 1 and therefore are allowable.

Dependent claims 12-20 depend from and further limit claim 11 and therefore are allowable.

An early formal notice of allowance of claims 1-20 is requested.

To the extent that this Response to Office Action results in additional fees, the Commissioner is authorized to charge deposit account no. 50-3524.

Applicant has made an carnest attempt to place this case in condition for allowance. If any unresolved aspect remains, the Examiner is invited to call Applicant's attorney at the telephone number listed below.

Respectfully submitted,

Michael A. Davis, Jr.

Registration No. 35,488

I hereby cartify that this paper is being facaintile transmitted to the Patent and Tradomark Office on the date shown below;

Date: February 21, 2006
Davis Law Group, P.C.
9020 N. Capital of Texas Hwy.
Bldg. 1, Suite 375
Austin, Texas 78759
Telephone 512-306-8324
Facsimile 512-306-8374
Docket Number: 1001.29

February 21, 2006

February 21, 2006

Fax Number: <u>571-273</u>-8300

Fax Transmittal

DATE: April 24, 2006

Total Pages (including this cover page): _17

TO:

Refund Branch

U.S. Patent and Trademark

P.O. Box 1450

Alexandria, VA 22313-1450

Fax No.;

571-273-6500

FROM:

Michael A. Davis, Jr.

Davis Law Group, P.C.

Direct Phone #: (512) 306-8324

9020 N. Capital of Texas Hwy.

Direct Fax #:

(512) 306-8374 Bldg. I, Suite 375

E-mail:

michael.davis@LegalVP.com Austin, Texas USA 78759 If you have any problem with this transmittal, please call: (512) 306-8324

RE:

Deposit Account No. 50-3524 (Refund Request - SECOND SUBMITTAL)

Customer No. 53953

Please see the attached correspondence regarding a request for refund.

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